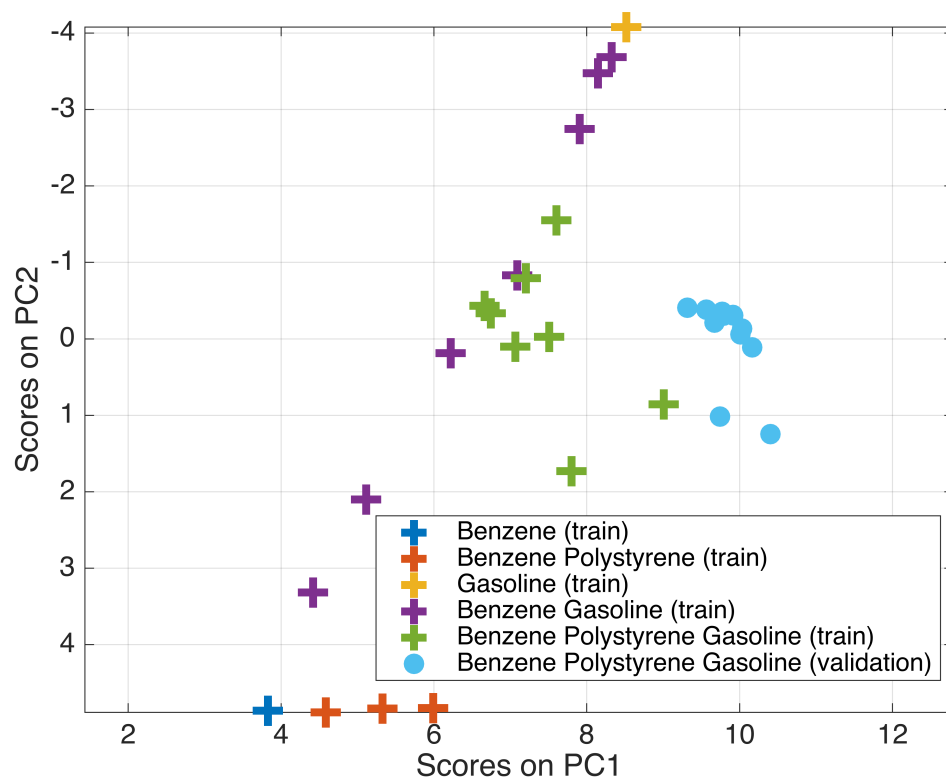


## Plot scores of training and validation together

Plot the scores of principal component 1 and principal component 2 with training and unknown validation data together.

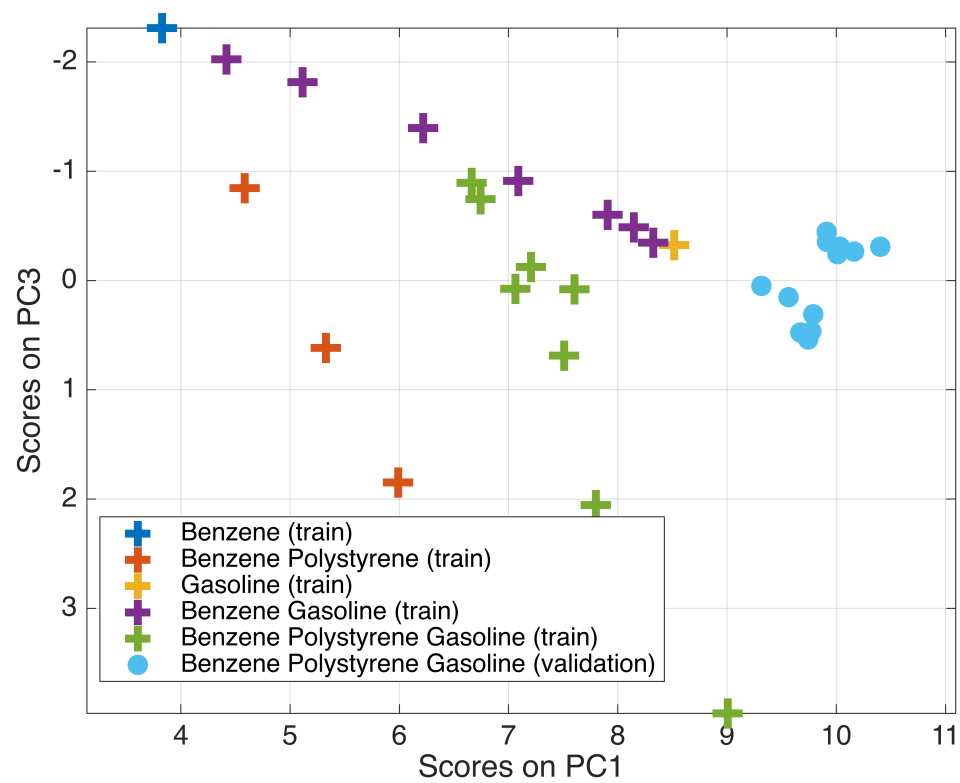
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```
clearvars
load pnnl_napalm_data
first_pca = 1;
second_pca = 2;
displayConcentrations = false;
pnnl_plot_scores_train_vs_unknown(A_train, C_train, A_unknown, C_validation, first_pca,
```



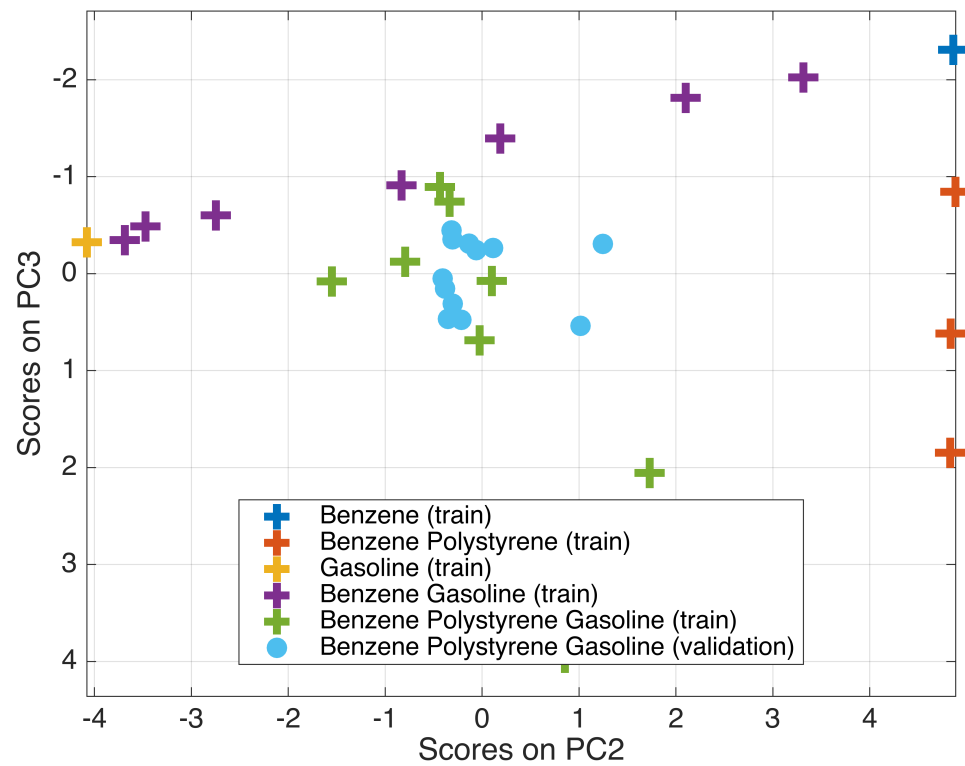
Plot the scores of principal component 1 and principal component 3 with training and unknown validation data together.

```
pnnl_plot_scores_train_vs_unknown(A_train, C_train, A_unknown, C_validation, 1, 3, Con.
```



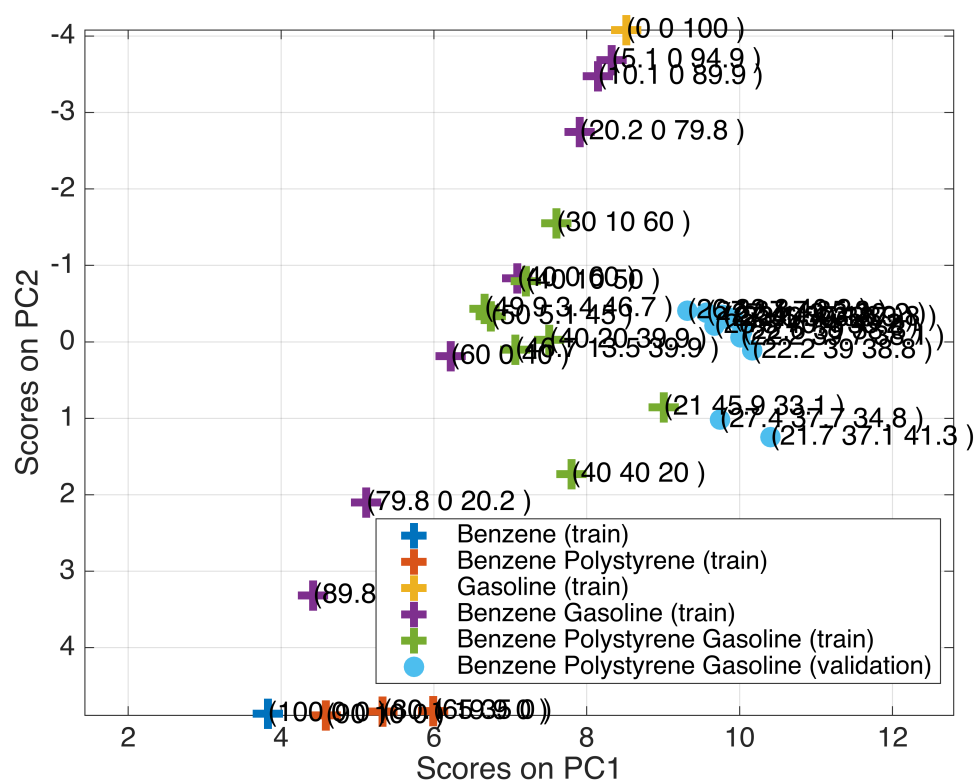
Plot the scores of principal component 2 and principal component 3 with training and unknown validation data together.

```
pnnl_plot_scores_train_vs_unknown(A_train, C_train, A_unknown, C_validation, 2, 3, Con
```



If you set `displayConcentrations` to `true`, then the percentages of the concentrations will display on the plot.

```
first_pca = 1;
second_pca = 2;
displayConcentrations = true;
pnnl_plot_scores_train_vs_unknown(A_train, C_train, A_unknown, C_validation, first_pca,
```



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